

STEREO MOC Status Report
Time Period: 2014:223 - 2014:229

STEREO Ahead (STA) Status:

1. The following Ground System anomalies/events occurred during this reporting period:

- None.

2. The following spacecraft/instrument events occurred during this week:

- On day 224, the long duration (11 months) ephemeris, to be used for solar conjunction, was loaded to G&C EEPROM, in preparations for side lobe operations and solar conjunction.
- On day 224, the 31st SECCHI stepped calibration was executed at 1750z for aphelion in the orbit.
- On day 226, the 4th battery conditioning event was successfully conducted on the Ahead spacecraft to redistribute the electrolytes within the nickel hydrogen battery cells.
- On day 227, DHS parameters version 1.1.8 and MOps macros 1.1.23 were loaded to EEPROM in preparations for SSR reconfiguration to support Ahead side lobe operations which will commence on day 232.
- The average daily SSR playback volume for Ahead was 4.6 Gbits during this week.

STEREO Behind (STB) Status:

1. The following Ground System anomalies/events occurred during this reporting period:

- On day 223, an Uplink Tracking and Command (UPL) v11.3 Project Interface Test (PIT) was conducted with DSS-26. The purpose was to validate DSN to Project functional interfaces with UPL V11.3 software. All test objectives

were met successfully. Tracking, telemetry, and command data from this support was non-committed.

- On day 226, during the DSS-55 support, command bind was lost at 0842z. The MOC rebound the command link. Later in the support, real-time telemetry reception was lost at the MOC for two minutes beginning at 1041z due to a DCD fault tolerance anomaly at the station. The DSN switched to the backup DCD to correct. All SSR data was received. See DR #N109695 for more information.
- On day 227, during the DSS-26 support, initial telemetry lock was established 32 minutes late at 1632z due to a failed UPS unit for the LNA at the station. The DSN switched to the backup UPS unit to correct. Later in the support, the downlink receiver lost telemetry beginning at 1730z for 45 minutes. A backup receiver channel was added to correct. All SSR data was received for this track. However, SECCHI partition 19 later filled due to these anomalies. See DRs #G115353 and #G115354 for more information.
- On day 228, during the DSS-25 support, turbo decoder lock was lost briefly beginning at 1822z. This anomaly resulted in the loss of two frames of SSR data.
- On day 229, during the DSS-25 support, turbo decoder lock was lost briefly beginning at 1823z. This anomaly resulted in the loss of 11 frames of SSR data.

2. The following spacecraft/instrument events occurred during this week:

- On day 228, the SSR science partitions filled as follows:

SECCHI (Part 19) reached 100% full at 0309z for 5.2 hours. The cause for the partition filling was the DSS-26 LNA anomaly and SSR pointer repositioning on day 227.
- The average daily SSR playback volume for Behind was 4.1 Gbits during this week.